DATE: May 24, 2010 API # :47-001-03114

## State of West Virginia Department of Environmental Protection Office of Oil and Gas

#### Well Operator's Report of Well Work

Farm name: <u>Hellyer</u>		Oper	ator Well No.:_	B822_	
LOCATION: Elevation:1	1913'	Quadrangle:Audra 7.5'			
District: Barker		_ County:E	Barbour		
Latitude:	Feet South of	Deg.	Min.	Sec.	
Longitude	Feet South of Feet West of	Deg.	· Min.	Sec.	
		Casing &	Used in	Left in well	Cement fill
Company: Berry Energy, In	ac.	Tubing	drilling		up Cu. Ft.
Address: P.O. Box 5		7°	800'	800,	To surface
Clarksburg, WV 26301		4 1/2"		5,288'	240 sx
Agent: David Berry					
Inspector: Bryan Harris					
Date Permit Issued: 3/26/201	10				
Date Well Work Commenced					
Date Well Work Completed:					
Verbal Plugging:	0, 0,2020		RECEI	VED	
Date Permission granted on:			iffice of O	& Gac	
Rotary X Cable			11100 01 0	I CI CIOS	
Total Depth (feet): 5339' (1		1	MAR 2 2	2012	
Fresh Water Depth (ft.): 52			WAR 22	<del>KU13</del>	
Fresh Water Depth (14): 52			<u> </u>		
Salt Water Depth (ft.): Non		<del> V</del>	<b>V</b> Depart	nent of	
Sait Water Depth (it.): Non	E	Fry	nnmental	Protection	<u> </u>
Ye and hair's wined in avec (	NIGONO	-114[	primerital	Froiechor	
Is coal being mined in area (			<del> </del>	<u> </u>	
Coal Depths (ft.):none		ı	1	1	
OPEN FLOW DATA					
Producing formations	s: Benson, Haverty	Sands* Pav	zone depth (ft	5200, 3820	
Gas: Initial open flow	v odor MCF/d	Oil: Initial ope	n flow	Bbl/d	
Final open flow	360 MCF/d	Final open flow	v B	<u></u>	
Time of open flow	v between initial and	final tests	4 Hour	re	
Static rock Pressure_					
Static Tock I Tessure_		am race bressn	10) a1tol _70_	110415	
Second producing for	motion 5th Cond*	Doy some	dometh (A) 010	۸۰ <del>ق</del> س محس	
					mingi <b>e</b> a
Gas: Initial open flow		: Initial open f		Bb1/d	
Final open flow		Final open flow		bl/d	
	v between initial and		Hou		
Static rock Pressure_	psig (surfa	ice pressure) at	fterHo	urs	
NOTE: ON BACK OF TH INTERVALS, FRACTURI LOG WHICH IS A SYST INCLUDING COAL ENC	ING OR STIMULATI TEMATIC DETAILED	NG, PHYSICA GEOLOGICA	L'CHANGE, I	TC. 2). THE WI	ELL
Signed:	Javid D	eru			
<del>-</del>	David Berry				•
Date:	5/7/2008				•

1-3114

Perforations: Haverty Sand / Stage one: 15 holes (.39") 5196' - 5199' (GL)

Benson Sand / Stage two: 15 holes (.39") 3810' - 3815' (GL) 5th Sand / Stage three: 15 holes (.39") 2177' - 2182' (GL)

Stimulation: Stage one: 500 gal 15% HCl, 37,631 # 20/40 sand, 296 Bbls, BD 2586#, ATP 3561#

432 Mscf Nitrogen in 65 Q foam

Stage two: 500 gal 15% HCl, 30,988 # 20/40 sand, 196 Bbls, BD 1607#, ATP 2865#

267 Mscf Nitrogen in 51 Q foam

Stage three: 500 gal 15% HCl, 45,564 # 20/40/sand, 408 Bbls, BD 2088#,

ATP 2998#. 423 Mscf Nitrogen in 63 Q foam

#### Geologic Record

0 1 - 10 1	•	004	
Sand and Shale	0	284	soap @ 52'
Sandstone	284	308	
Sand and Shale	308	645	
Sandstone	645	679	
Red Rock	679	917	
Sand and Shale	917	1108	
Little Lime	1108	1126	
Pencil Cave	1126	1162	
Big Lime	1162	1398	
Sand and Shale	1398	1900	
Sandstone w/ shale stringers	1900	2068	
Shale	2068	2100	
5 <sup>th</sup> Sand	2100	2198	show of gas
Shale and Siltstone	2198	3815	
Benson Sand	3815	3826	
Shale and Siltstone	3826	5166	
Haverty Sand	5166	5226	
Shale	5226	5339	TD (10' KB)

WR-35 Rev (8-10)

# State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	5-11-11
API#:	47-001-03227

TION: Elevation: 1724				
	Quadrangle: A	udra 7.5'		
District: Union	County: Barbo			
Latitude: N39.07468 Feet South of Deg.	Min.			
Longitude W60.06943 Feet West ofDeg.	Min.	Sec.		
ny: Berry Energy				
•	Casing &	Used in	Left in well	Cement fill
Address:	Tubing 9-5/8"	drilling 36	36	up Cu. Ft.
Agent: Daniel Berry	7"	632	632	To Surface
	4-1/2"	3479	3479	130 sx
Inspector: Bryan Harris	4-1/2	3713	V-113	100 84
Date Permit Issued: 2-8-11	1	<u>1</u>	<u> </u>	
Date Well Work Commenced: 4-12-11				
Date Well Work Completed: 4-26-11	<u>i</u>	<u> </u> 		
Verbal Plugging:	1	<u> </u>	<u> </u>	<u> </u>
Date Permission granted on:			RI	CEIVER
Rotary X Cable Rig			Office	OF CHILLY OF
Total Vertical Depth (ft): 3926	<u> </u>			
Total Measured Depth (ft): 3926			<u> </u> MAR	2 2 2013
Fresh Water Depth (ft.): 62'			MAN	
Salt Water Depth (ft.): None		E	Wiro Dep	artment o
Is coal being mined in area (N/Y)? N			vironmen	al Protos
Coal Depths (ft.): 150-155, 202-207		,		. 0:60
Void(s) encountered (N/Y) Depth(s) None				
N FLOW DATA (If more than two producing formation				

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Hours

\_\_Hours

Signature

\_psig (surface pressure) after 72

Time of open flow between initial and final tests 4

Static rock Pressure 725

Date

	MAKCII!	1 e2_	140	_ Were co	uttings caught	anting atm	ing: resNo	_
Were $\frac{Y}{Y/N}$ Electron	rical, N	Me N	echanical, N Y/N	or Geophysical logs reco	rded on this v	vell?		
NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.								TIC
Perforated Intervals		0.	·					
			<del></del>	4' - 3435' , Speechle	y 15 Hole	s (.39) 22	85' <b>-</b> 2302'	
Fourth Sand 1								
					nd, 173 Bb	ls Water,	438,201 Scf Nitroge	n, 
Break Down 3,7								
				20/40 Sand, 153 B	bls Water,	334,385	Scf Nitrogen,	
Break Down 3,4	50#, A	verag	ge Treating P	ressure 2,607#				
Fourth Sand: 50	00 gal 1	5%	HCL, 39,600	# 20/40 Sand, 145 I	Bbls Water	, 361,181	Scf Nitrogen,	
Break Down 5,0	80#, Av	verag	e Treating P	ressure 3,030#				
Formations Encour Surface:	ntered:			Top Depth	/		Bottom Depth	
	ntered:		12'	Top Depth Sandy	/ Shale	3020'	Bottom Depth  / 3920'	
Surface:		/	12' 34'		/ Shale	3020'		
Surface: Clay	1'				Shale	3020'		
Surface: Clay Shale	1' 12'		34'		Shale	3020'		
Surface: Clay Shale Sand	1' 12' 34'	/	34' 60'		Shale	3020'		
Surface:  Clay Shale Sand Shale	1' 12' 34' 60'	/ /	34' 60' 88'		Shale	3020'		
Surface:  Clay Shale Sand Shale Sand	1' 12' 34' 60' 88'	/ / /	34' 60' 88' 150'		Shale	3020'		
Surface:  Clay Shale Sand Shale Sand Coal	1' 12' 34' 60' 88' 150'	         	34' 60' 88' 150' 155'		Shale	3020'		
Surface:  Clay Shale Sand Shale Sand Coal Sand/Shale	1' 12' 34' 60' 88' 150' 155'	           	34' 60' 88' 150' 155' 202'		Shale	3020'		
Surface:  Clay Shale Sand Shale Sand Coal Sand/Shale Coal	1' 12' 34' 60' 88' 150' 155' 202'	/ / / / /	34' 60' 88' 150' 155' 202' 207'		Shale	3020'		
Surface:  Clay Shale Sand Shale Sand Coal Sand/Shale Coal Sand/Shale	1' 12' 34' 60' 88' 150' 155' 202' 207'	/ / / / /	34' 60' 88' 150' 155' 202' 207' 570'		Shale	3020'		
Surface:  Clay Shale Sand Shale Sand Coal Sand/Shale Coal Sand/Shale Shale	1' 12' 34' 60' 88' 150' 155' 202' 207' 570'	/ / / / / /	34' 60' 88' 150' 155' 202' 207' 570' 700'		Shale	3020'		
Surface:  Clay Shale Sand Shale Sand Coal Sand/Shale Coal Sand/Shale Shale Shale Shale	1' 12' 34' 60' 88' 150' 155' 202' 207' 570' 700'	/ / / / / / /	34' 60' 88' 150' 155' 202' 207' 570' 700'		Shale	3020'		
Surface:  Clay Shale Sand Shale Sand Coal Sand/Shale Coal Sand/Shale Shale Shale Shale Sand/Shale	1' 12' 34' 60' 88' 150' 155' 202' 207' 570' 700'	/ / / / / / /	34' 60' 88' 150' 155' 202' 207' 570' 700' 1100' 1345'		Shale	3020'		

WR-35 Rev (9-11)

### State of West Virginia Department of Environmental Protection Office of Oil and Gas

DATE: 3/14/13 API #: 47-001-03257

Well Operator's Report of Well Work

Farm name: Bumgardner	Operator Well	No.:Bumgardı	ner 5-2H	Oli aua Sas El AEL
LOCATION: Elevation: 1240	Quadrangle: C	Century 7.	Office	- a 2013
District: Union	County: Barbo			*) k1
Latitude: 1300 Feet South of 39 Deg.	O7 Min	Sec	. رجع	mention a
Longitude 650 Feet West of 80 Deg.	12 Min	. <u>39.5</u> Sec		W. WIRCHA
Company: PetroEdge Energy LLC			ELINGOR	india. Diegnou
Address: 4477 Williamstown Pike	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Williamstown, WV 26187				
Agent: Dan Mullins	20"	30'	30'	Sand In
Inspector: Joe McCourt	13 3/8"	464'	436'	Cement to surface
Date Permit Issued: 9/27/11	9 5/8"	2560'	2532'	Cement to surface
Date Well Work Commenced: 12/10/11	5 1/2"	14250'	14195'	Cement to surface
Date Well Work Completed: 3/8/12				
Verbal Plugging:		İ		
Date Permission granted on:				
Rotary Cable Rig V				
Total Vertical Depth (ft): 7633				
Total Measured Depth (ft): 14203				
Fresh Water Depth (ft.): 205				
Salt Water Depth (ft.): 2004				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 320,425,586				
Void(s) encountered (N/Y) Depth(s) N				
	zone depth (ft)		ata on separate s	sheet)
Gas: Initial open flow MCF/d Oil: Initial open f				
Final open flow MCF/d Final open flow Time of open flow between initial and final tests				
Static rock Pressurepsig (surface pressure) at				
Second producing formationPay zo				
Gas: Initial open flow MCF/d Oil: Initial open f				
Final open flow MCF/d Final open flow Time of open flow between initial and final tests				
Static rock Pressurepsig (surface pressure) a				
I certify under penalty of law that I have personally examined all the attachments and that, based on my inquiry of those inditat the information is true, accurate, and complete.				
•	_			
Dan Mulli	~	3/1	4/13	

Signature

Date

Were core samples taken? Yes	No_X Were cuttings can	ight during drilling? Yes_XNo
Were Electrical, Mechanical or Geophysi	cal logs recorded on this well? If yes, please	e list Mud Log, GR, CBL
FRACTURING OR STIMULATING, DETAILED GEOLOGICAL RECO	PHYSICAL CHANGE, ETC. 2). THE VRD OF THE TOPS AND BOTTOMS ELLBORE FROM SURFACE TO TOTA	ILS OF PERFORATED INTERVALS, VELL LOG WHICH IS A SYSTEMATIC OF ALL FORMATIONS, INCLUDING L DEPTH.
		mahana Duanantian Ing
weil has not been tractured - waiting o	n pipeline - transferring to Statoil USA O	nsnore Properties Inc.
	<del>-</del>	
Plug Back Details Including Plug Type a	nd Depth(s):	
Formations Encountered: Surface:	Top Depth /	Bottom Depth
Coal	320	322
Coal	425	429
Coal	586	589
Benson	4885	4950
Rhinestreet	6132	7040
Middlesex	7040	7284
West River	7284	7506
Genessee	7506	7535
Tully	7535	7589
Hamilton	7589	7854
Marcellus	7854	

DAGE: Nov. 9, 2009 At . 47-007-02609

## State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Linda L Claypool Operato	or Well No:_	Claypool #1	Acres_10	2.58
LOCATION: Elevation: 1149 Quadrangle: But	rnsville 7.5'			
District: Salt Lick County:	<u>Braxton</u>			
Latitude: 14,550' Feet South of: Longitude: 10280' Feet West of:	80 Deg. 39	Min. 40.1 Sec	<b>:</b>	
Company: Mike Ross Inc. Address: Po Box 219	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: Po Box 219  Coalton WV 26257				
	11 3/4	40	40	
Inspector: Joe McCourt	8 5/8	900	900	375 sacks
Date Permit Issued: 10/16/09	4.1/		4500	250.0
Date Well Work Commenced: 10/22/09	4 1/2		4580	620 sacks
Date Well Work Completed: 10/28/09 Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 4530		<u> </u>		
Fresh Water Depth (ft.): ½ hole wet @ 50'				
7.000 (1001 20pm (10). 72 1010 (100 6) 20				
Salt Water Depth (ft.): 2" @ 1149' SP on hole, 1 1/2" @ 2153'	1			
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.):				
Coar Depuis (1.).		1		1
OPEN FLOW DATA  Producing formation: Benson, Balltown Pay zone depth: 4570-2000 (ft)  Gas: Initial open flow 30 MCF/d  Final open flow 250 MCF/d  Time of open flow between initial and formation of the static rock Pressure 680 psig (surface)	Dil: Initial oper Final open flow	wBbl/d 4H	ours	
Second producing formationI Gas: Initial open flow MCF/d Oil: In Final open flow MCF/d Fin Time of open flow between initial and f Static rock Pressure psig (surface p  NOTE: ON BACK OF THIS FORM PUT THE FO INTERVALS, FRACTURING OR STIMULATIN LOG WHICH IS A SYSTEMATIC DETAILED G INCLUDING COAL ENCOUNTERED BY THE V  Signed:	nitial open flow all open flow _ final tests ressure) after	W Bbl/d Bbl/d Hours Hours	Perforated	Ceived  7 2013  Land Gas  Merital Protection

By: Mike Ross Date: Nov. 9, 2009

Well Name: Vaypool #1 7-02609

1st Stage - Perfs from 4500 to 4516, Holes 16, Acid 950 Gals., Bbls water or foam 550, 80/100 sand 150 sacks, 20/40 sand 250 sacks, N2 100,000 SCF, ISP 831#.

2<sup>nd</sup> Stage - Perfs from 2774 to 3232, Holes 22, Acid 800 Gals., Bbls water or foam 450, 80/100 sand 150 sacks, 20/40 sand 315 sacks, N2 88,000 SCF, ISP 825#.

3<sup>rd</sup> Stage - Perfs from 1920 to 2059, Holes 14, Acid 1000 Gals., Bbls water or foam 400, 80/100 sand -0- sacks, 20/40 sand 415 sacks, N2 75,000 SCF, ISP 890#.

4<sup>th</sup> Stage - Perfs from , Holes , Acid Gals., Bbls water or foam , 80/100 sand sacks, 20/40 sand sacks, N2 SCF, ISP

#### Directions: Route 19 North Flatwoods just before Weyerhauser Wood Plant left to cross bridge and railroad track. Bear left up hill.

#### Details:

Sand & Shale	0	- 730
Sand	730	- 1349
Sand & Shale	1349	- 1795
Little lime	1795	- 1820
Sand & Shale	1820	- 1860
Big Lime	1960	- 1950
Big Injun	1950	- 2070
Show Gas		
Sand & Shale	2070	- 2480
Gordon Sand	2480	- 2510
Sand & Shale	2510	- 2900
Balltown Stringers	2900	- 3250
Show Gas		
Sand & Shale	3250	- 4500
Show Gas		
Benson Sand	4500	- 4520
Sand & Shale	4520	- 4751
TD	4751	

Received WV Dept. of Environmental Protection

: Nov. 12, 2009 API #: 47-007-02610

### State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Linda L. Claypool Opera	tor Well No:	Claypool #2	Acres 14	<u>15</u>
LOCATION: Elevation: 1247' Quadrangle: Bu	ırnsville 7.5'			•
District: Otter County: B	<u>raxton</u>			
Latitude: 13,500' Feet South of			c. ·	
Longitude: 210' Feet West of: 8	Casing &	Used in	T -A !11	Cement fill
Company: Mike Ross Inc.	Tubing	drilling	Left in well	up Cu. Ft.
Address: Po Box 219	Tublig	l		up Cu. rt.
Coalton WV 26257				
Agent: Mike Ross	11 3/4	40		
Inspector: Joe McCourt	8 5/8	1240	1240	352 sacks
Date Permit Issued: 10/30/09	0 3/0	1240	1240	JJZ SUCKS
Date Well Work Commenced: 11/04/09	4 1/2	! 	4745	650 sacks
Date Well Work Completed: 11/09/09	1 72		4/40	GOO. SACKS
Verbal Plugging:	1			1
Date Permission granted on:				
Rotary X Cable Rig	l			
Total Depth (feet): 4690'				1
Fresh Water Depth (ft.): 1/2" stream @ 52 ft				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.):955-958 and 1065-1068,				
	_	•		•
OPEN FLOW DATA	·			
Producing formation: Benson, Ballton	wn, Gordon,	<u>Big Injun</u>		
Pay zone depth: 4660-2140 (ft)				
Gas: Initial open flow 80 MCF/d				
Final open flow 425 MCF/d	Final open flow	w Bbl/d		
Time of open flow between initial and	final tests	<u>4</u> Ho	ours	
Static rock Pressure 780 psig (surface	ce pressure) aft	er <u>72</u> Hou	ırs	
Second producing formation	Pay zone dent	h ( <del>A</del> )		
Gas: Initial open flow MCF/d Oil: 1				
Final open flow MCF/d Fin	•			
Time of open flow between initial and				
Static rock Pressurepsig (surface)			_	
Static rock Pressurepsig (surface	pressure) arter	nours	Reco	•
NOTE: ON BACK OF THIS FORM PUT THE F	OLLOWING: 1)	). DETAILS OF	PERFORACE	VON
INTERVALS, FRACTURING OR STIMULATII				r CU
LOG WHICH IS A SYSTEMATIC DETAILED		RECORD OF A	LIMMORMATIC	ONS,
INCLUDING COAL ENCOUNTERED BY THE	WELLBORE.	•'	7 / 2	013
Signed: Tuke	LOSS	W <sub>Dept</sub>	Office of Oil and Go of Environmental	
		•-•,	Environment	as
By: Mike Ross			·····	Protection

Date: Nov. 19, 2009

Date of Frac.: Nov. 16, \_\_09

Well Name: Claypool #2
7-026/0

1<sup>st</sup> Stage - Perfs from 4662 to 4672, Holes 16, Acid 1000 Gals., Bbls water or foam 459, 80/100 sand 150 sacks, 20/40 sand 311 sacks, N2 73,000 SCF, ISP 732.

2<sup>nd</sup> Stage - Perfs from 2731 to 3354, Holes 16, Acid 500 Gals., Bbls water or foam 484, 80/100 sand 140 sacks, 20/40 sand 315 sacks, N2 65,000 SCF, ISP 720#.

3<sup>rd</sup> Stage - Perfs from 2540 to 2655, Holes 12, Acid 500 Gals., Bbls water or foam 419, 80/100 sand -0- sacks, 20/40 sand 344 sacks, N2 45,000 SCF, ISP .

4<sup>th</sup> Stage - Perfs from 2138 to 2208, Holes 14, Acid 1,000 Gals., Bbls water or foam 410, 80/100 sand -0- sacks, 20/40 sand 350 sacks, N2 44,000 SCF, ISP 959.

<u>Directions</u>: South on Route 19 to just before wood plant left. Cross wood bridge and railroad tracks. Left up hill to second location.

#### Details:

Sand & Shale	0 - 538
Sand	538 - 600
Sand & Shale	600 - 955
Coal	955 - 958
Sand & Shale	958 - 1065
Coal	1065 - 1068
Sand & Shale	1068 - 1200
Sand	1200 - 1488
Sand & Shale	1488 - 1895
Little Lime	1895 - 1935
Sand & Shale	1935 - 1945
Big Lime	1945 - 2191
Big Injun	2191 - 2220
Show Gas	
Sand & Shale	2220- 2540
Gordan Sand	2540 – 2560
Show Gas	
Sand & Shale	2560 - 3100
Balltown Stringers	3100 - 3350
Show Gas	•
Sand & Shale	3350 - 4640
Benson	4640 – 4660
Show Gas	
Sand & Shale	4660 – 4816
TD	4816

Received

Office of Oil and Gas

WV Dept. of Environmental Protection

WR-35 Rev (9-11)

#### State of West Virginia Department of Environmental Protection Office of Oil and Gas

DATE:	2/4/13	
API#:	021-3513 W	•

Well Operator's Report of Well Work

Farm name: LARRY B.	_ Operator We	ll No.: F. W. BE	LL #8			
OCATION: Elevation: 944'	_ Quadrangle:	Quadrangle: GLENVILLE				
District: DEKALB	County: GiL	MER				
Latitude: 10300' Feet South of 39 Deg		n. 00 Se	ec.			
Longitude 9825 Feet West of 80 Deg	g. <u>50</u> Min	n. <u>00</u> Se	ec.			
Company: ROY G. HILDRETH AND SON, INC.						
Address: P. O. BOX 1007	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.		
SPENCER, WV 25276	10 3/4"	195'	195'	EXISTING		
Agent: ROY G. HILDRETH	8 5/8"	600'	600'	EXISTING		
Inspector: JOE MCCOURT	7"	1397'	1397'	EXISTING		
Date Permit Issued: 7/24/2012	4 1/2"	2120'	2120'	TOP CEMENT TO 7"		
Date Well Work Commenced: 9/1/12				1300' -80 SACKS		
Date Well Work Completed: 9/20/12				108 CU FT		
Verbal Plugging: N/A						
Date Permission granted on: N/A						
Rotary Cable Rig						
Total Vertical Depth (ft): 2150'						
Total Measured Depth (ft):						
Fresh Water Depth (ft.): 100'						
Salt Water Depth (ft.): N/A						
Is coal being mined in area (N/Y)? NO						
Coal Depths (ft.): N/A						
Void(s) encountered (N/Y) Depth(s) N/A						
Gas: Initial open flow SHOW MCF/d Oil: Initial open final open flow 200 MCF/d Final open flow Time of open flow between initial and final tests psig (surface pressure) a	zone depth (ft)  flow SHOW E  w 5 B  Hour  fler Hour  one depth (ft) 16  flow SHOW E  w 5 B  Hour	2008' - 2012' Bbl/d bl/d s urs 68' - 1673' Bbl/d bl/d s	El أن⇔ ضائد MAR :	CEIVER Oil and		

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Were core samples take	n? Yes	No X	Were c	uttings caught durir	ng drilling? Yes X	No
Were Electrical, Mecha	nical or Geophys	sical logs recorded	on this well? If	yes, please list ELE	ECTRICAL	
NOTE: IN THE A FRACTURING OR S DETAILED GEOLO COAL ENCOUNTER Perforated Intervals, Fra	STIMULATING GICAL RECORED BY THE W	S, PHYSICAL CE ORD OF THE T VELLBORE FRO	IANGE, ETC. 2 OPS AND BO	). THE WELL LOTTOMS OF ALL	OG WHICH IS A SY FORMATIONS, 1	STEMATIC
PERF 2062' (1 HOL	E)		FRAC	MAXON 1668' -	1673 <sup>;</sup> (6 HOLES)	
FRAC WIER 2008' - 201	2' (5 HOLES)		PERF	SALT SAND 1612'	- 1616' (5 HOLES)	_
FRAC WIER 1969'	-1973' (6 HOI	_ES)	PLUG	S SET 1500'		
PERF 1873' (1 HOL	.E)		PERF	SALT SAND 1	468' - 1476' (15 H	IOLES)
PERF 1817' (2 HOL	.ES)					
PLUG SET @ 1700	1					
Plug Back Details Inclu	ding Plug Type a	and Depth(s): FO	AM FRAC 2	0,000 LB EAC	H 500 GAL ACII	DEACH
Formations Encountere Surface:	<u>d:</u>	To	op Depth	/	Bottom I	<u>Pepth</u>
SLATE & SHALE	0' - 1300'					
LIME	1300' - 1350'					
SALT SAND	1350' - 1400'					
SLATE & SHALE	1400' - 1430'			_		
SALT SAND	1430' - 1480'					
SLATE & SHALE 1	480' - 1590'					
SALT SAND	1590' - 1620'					
SLATE & SHALE 1	1620' - 1650'	•				
MAXON 1	650' - 1678'					
SLATE & SHALE 1	678' - 1700'					
BIG LIME 1	700' - 1790'					
INJUN 1	790' - 1830'					
SLATE & SHALE 1	830' - 1950'					
WIER 1	950' - 2020'					
SLATE & SHALE 2	2020' - 2150'			F. W. B	ELL #8	

47-033-04907 F

#### State of West Virginia **Division of Environmental Protection** Section of Oil and Gas Well Operator's Report of Well Work

Farm	name:	

JUNKINS, EARL AND BELVA S.

Operator Well No.: HIRAM LYNCH 114

LOCATION:

Elevation:

1,080'

Quadrangle: WOLF SUMMIT 7.5'

District:

TEN MILE

County: HARRISON

Latitude:

3,330 Feet south of

39 Deg 17 Min 30

Sec. 80 Deg 27 Min 30 Sec.

Longitude: 8,425 Feet west of

Company Address:	HG Energy 5260 DuPor Parkersburg	nt Rd , WV 26101	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Inspector:	Tristan .	Jenkins				
Date Permit Is	ssued: 01	1/25/2013	]			
Date Well Wo	ork Commenced:	02/26/2013				
Date Well Wo	ork Completed:	02/27/2013				
Verbal Pluggi	ng:		]			
Date Permissi	on Granted On:					
Rotary X	Cable F	Rig	7"	450'	450'	existing
Total vertical	Depth (ft):	2840'				
Total Measure	ed Depth (ft):	2840'	]			
Fresh Water I	Depth (ft):	380'	4 1/2"	2769.9'	2769.9	existing
Salt Water De	epth (ft):	None			_	
Is Coal being	mined in ares (Y/N)?	No No		-	CENED	(CO2
Coal Depths (		None		B	of Oil air	
Void(s) encou	intered (Y/N) depth(s	):		Office	ECEIVED OF 21	1/3
				_	MAR 122	* of a
					~art	mentection
FLOW DATA	* Waterfloo	d Injector		V Env	ironmento	ment of ment of
D., J., C.	,•	TiAl Can I		D 1	41. (A)	26461 26601

#### **OPEN FLOW DATA**

			•		7.44		
Produc	ing formation	F	Fifth Sand	Pay zo	one depth (f	t)	2646'-2660'
Gas:	Initial open flow		* MCF/d	Oil: Initial open	flow	*	Bbl/d
	Final open flow		* MCF/d	Final open	flow	*	Bbl/d
	Time of open flow	between	initial and fin	al tests	*	Hours	
Static 1	rock pressure	-	*psig (st	urface pressure)	after	*	Hours
Second	producing formation			Pay zo	one depth (f	ft)	
Gas:	Initial open flow		MCF/d	Oil: Initial open	flow	-	Bbl/d
	Final open flow		MCF/d	Final open	flow		Bbl/d
	Time of open flow	between	initial and fin	al tests		Hours	
Static r	ock pressure		psig (si	urface pressure)	after	•	Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the

information is true, accurate, and complete.

Were	core samp	oles taken?	No		Were cut	tings caught during drilling	? No 33.04907F
Were	Y Y/N	Electrical,	N Y/N	Mechanical,	N Y/N	or Geophysical logs record	ded on this well?
	ULATING, F	PHYSICAL CHAN	IGE, ETC. 2).	THE WELL LOG \ NS, INCLUDING	WHICH IS A	PERFORATED INTERVALS, FF SYSTEMATIC DETAILED GEOL DUNTERED BY THE WELLBOR	OGICAL RECORD OF
<u>Treat</u>	ment :	Treated perfs & 10,000# 20		w/ 500 gals 15	5% HCL, 2	52 bbls cross linked gel,	
<u>Well ]</u>	Log:	See original v	well record				

...

• • •

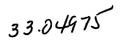
WR-35 Rev (8-10)

Date May API # 47

May 29, 2013 47 033 - 04975

# State of West Virginia Division of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

Farm Name: _	Carnes	Richard & Pa	atricia	Operat	or Well	No.; _		Gerrard 2106	
LOCATION:	Elevation:	1122'		Quadra	Quadrangle: Wolf Summit			mmit	
	District:	Sard		County	<b>':</b>		Harris	on	
	Latitude:	2762'	feet South of	39	DEG.	20'	MIN.	00" SEC.	
	Longitude:	7537'	feet West of	80	DEG.	22'	MIN.	30" SEC.	
Company:									
					sing &				Cement Fill
	Linn Opera	ting LLC			ng Size	Used in	Drilling	Left In Well	Up Cu. Ft.
Address: PO				_ 13	3/8"			44'	Sand In
	Jane Lew, V	W 26378			- 1011				
Agent: Gary Be				ا 9	5/8"	34	48'	348'	105 sks
Inspector:		im Bennett	_					-	
Date Permit Iss		11/6/200		4	<b>-</b> 211	1 40		40-51	
	k Commenced:		/2008		7"	1 12	75'	1275'	115 sks
Date Well Work		2/2	1/2008	╡.	4 40 11			40041	4.5
Verbal Plugging				4	1/2"	4/	00'	4621'	145 sks
Date Permission			Dia.						
X Rotary	Cable		Rig	4			RFC	EIVED	
Total Vertical De		4700'	4700'			$\sim$			
Total Measured		<u>4700</u>				<u>U</u>	<u>TICE OI</u>	Oil & Gas	
Fresh Water Dept		NA						o (° 2040	
	nined in area (N		N	╣			JUN	0 <b>6</b> 2013	
Coal Depths (ft)	inteu ili atea (14	<del>71) 7</del> 50-55', 345-3	• •	-					
	ntered (N/Y) De		N	-	WV Department of				
				<del>ا</del>			•		
OPEN FLOW D	ATA (If more tr	ian two produ	icing formation	is pleas			mai matai	offseparate/sh	et)''
B					Pay Z		0.0	204 4450	
Producing For					Depth			901 <u>- 4458</u> '	•
Gas: Initial Ope		Show	MCF/d		Oil: In	nitial Ope	n Flow	******	Bbl/d
Final Ope		Show	MCF/d	l	F	inal Ope	n Flow		Bbl/d
•	n flow between i						Hours		
Static rock press	sure	psi	ig surface pres	ssure af	ter <u></u>		Hours		
					Pay Z	one			
Second Produc	ing Formation				Depth			**************************************	
Gas: Initial Ope	n Flow		MCF/d	ı	Oil: In	nitial Ope	n Flow	**********	Bbl/d
Final Oper			MCF/d			inal Ope		***********	Bbl/d
	n flow between i	nitial and fina					Hours		
Static rock press			ig surface pres	sure af	er .		Hours		
•			•						
certify under pen									
the attachments a that the information				ais iiiiiile	watery M	eshoi isibli	e ioi oblali	imig trie iriioiiiiati	OII I DENEAG
	/2					ــــــــــــــــــــــــــــــــــــــ		~	
						<u> </u>	31-1	5	
	Sig	nature				Date			



NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GOELOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimu a ing:

1	4448-4458'	Linear Gell Frac: Breakdown 3000 psig; Avg Treating 2093 psig @ 25.5 bpm; 325 sacks 20/40 sand; 486 bbls slurry; ISIP 1450 psig. Standard cubic feet N2: 52,000
2	3225-3254'	Linear Gell Frac: Breakdown 3000 psig; Avg Treating 1760 psig @ 25.5 bpm; 275 sacks 20/40 sand; 414 bbis slurry; ISIP 1280 psig. Standard cubic feet N2: 4900
3	3150-3154'	Linear Gell Frac: Breakdown 2800 psig; Avg Treating 2454 psig @ 21.6 bpm; 150 sacks 20/40 sand; 277 bbls slurry; ISIP 1260 psig. Standard cubic feet N2: 37000
4	3020-3025'	Linear Gell Frac: Breakdown 2800 psig; Avg Treating 2767 psig @ 21.6 bpm; 200 sacks 20/40 sand; 320 bbis slurry; ISIP 1320 psig. Standard cubic feet N2: 45000.
5	2901-2936'	Linear Gell Frac: Breakdown 3400 psig; Avg Treating 2166 psig @ bpm; 250 sacks 20/40 sand; 359 bbls slurry; ISIP psig. Standard cubic feet N2:46000

Formations Encountered:	Top Depth	/ Bottom D	epth
Surface:			
No change in depth			
Fill	0'		15
Shale	15		50
Coai	50		55
Sand/Shaie	55	RECEIVED	115
Red Rock	115	Office of Oil & Gas	140
Sand/Shale	140		230
Red Rock	230	JUN 0 6 2013	250
Sand Shale	250	3014 0 0 2013	280
Red Rock	280	1000	300
Sand/shale	300	_ WV Department of	315
Sand	315	<b>Environmental Protection</b>	345
Coal	345		348
Sand/Shale	348		450
Sand	450		520
Sand/Shale	520		560
Sand	560		600
Sand/shale	600		720
Shale	720		885
Sand	885		925
Red Rock	925		950
Sand/Shale	950		980
Sand/Shale	980		1160

33.04975

Red Rock	1160	1195
Shale	1195	1205
Red Rock	1205	1225
Sand	1225	1340
Big Lime	1340	1380
Sand/Shale	1380	1400
Big Injun	1400	1435
Sand/Shale	1435	1920
50'	1920	1960
Sand/Shale	1960	2010
30'	2010	2060
Sand/Shale	2060	2075
Gordon	2075	1205
Sand/Shale	1205	2280
<b>4th</b>	2280	2320
Sand/Shale	2320	2345
5th	2345	2380
Sand/Shale	2380	2480
Sand	2480	<b>2</b> 614
Shale	2614	2780
Sand	2780	2895
Shale	2895	3255
Balltown	3255	3290
Sand/Shale	3290	3520
Bradford	3520	3560
Sand/Shale	3560	4450
Benson	4450	4470
Shale	4470	4540
Sand/Shale	4540	4700

API #47 - 085- 08834F

#### State of West Virginia **Division of Environmental Protection** Section of Oil and Gas

#### Well Operator's Report of Well Work

Farm Name: Hartman Operator Well No. : **Twelve (12)** 

LOCATION:

Elevation:

890

Quadrangle:

**Burnt House** 

District:

Murphy

County:

Casing

Size

Latitude:

2,050

Feet South of 39 Deg. 02 Min.

Ritchie 30 Sec.

Longitude:

10,960

Feet West of 80 Deg. 57 Min.

Used

Left

Cement Fill Up

Company:

J.F.DEEM OIL & GAS, LLC 4541 EMERSON AVE., #1

& **PARKERSBURG, WV 26104** Tubing

In Drilling

(See Original W-35 Dated 01-11-02)

In Well Cu Ft

Agent: Inspector: J. Frank Deem **Larry Parrish** 

Permit Issued:

Well Work Commenced:

02-04-13

02-05-13

Well Work Completed: Verbal Plugging

Permission granted on:

Rotary

Cable

Rig

Total Depth (feet) Fresh water depths (ft) Salt water depths (ft)

Is coal being mined in area (Y/N)?

Coal Depths (ft):

RECEIVED Office of Oll and Gas

MAR 1 2 2013

WV Department of **Environmental Protection** 

**OPEN FLOW DATA** 

Producing formation 2213-2236 Berea Pay zone depth (ft)

Initial open flow Show MCF / D Oil: Initial open flow Show Bbl/ MCF/D Bbl / D Final open flow 23 Oil: Final open flow Show

Time of open flow between initial and final tests

Static rock pressure 155 psig (surface pressure) after 24 Hours

Second producing formation

Pay zone depth (ft)

Initial open flow \* MCF / D Oil: Initial open flow Gas: Bbl / D

Final open flow MCF/D Oil: Final open flow Bbl / D Time of open flow between initial and final tests Hours Static rock pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS. INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

> DEEM OII L& GAS, LLC For:

By

ebruary 15, 2013 Date:

**PRESIDENT** 

#### Hartman No. 12 (47-085-08834F)

Were core samples taken	n? Yes No	Were cuttings caught du	ring drilling? Yes	_ No
Were Electrical, Mechanic	cal or Geophysical L	ogs recorded on this well? If	f yes, please list	
STIMULATING, PHYSICA	AL CHANGE, ETC AND BOTTOMS OF	. 2). THE WELL LOG WHI	CH IS A SYSTEMATI	TERVALS, FRACTURING OF IC DETAILED GEOLOGICAI ITERED BY THE WELLBORE
Perforated Intervals, Frac				
Berea: Perforated	(14 Holes) 2213'- 2	2236'		
Treated Dov	wn 4½" Casing w/5	00 GA, 30,000# 20/40 Sand	<u>, 425 Bbls. 60 Quality</u>	/ Foam
20 4 2 5 6 7 8	a profit.			
Plug Back Details Includin	ng Plug Type and De	epth(s):		
Cast Iron Plug @ 2330'				
i Majorisa en				
Formations Encountered:		Top Depth		Bottom Depth Surface:
				·

WR-35 Rev (9-11)

### State of West Virginia D

DATE:	2/4/13	
API#:	087-4722	

epartment of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

name: MARY B. SNYDER	Operator Well No.: ROACH #6					
ATION: Elevation: 960'	Quadrangle: REEDY					
District: REEDY	County: ROANE					
		n. 00 Se n. 00 Se				
Longitude 6425 Feet West of 81 De Company: KRAKROW, INC.	.gwi	ii. <u>••          </u> 50				
Address: P. O. BOX 1007	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.		
SPENCER, WV 25276	9 5/8"	40'	40'	стѕ		
Agent: JON R. HILDRETH	7"	945'	945'	стѕ		
Inspector: ED GAINER	4 1/2"	2713'	2713'	TOP CEMENT 1500		
Date Permit Issued: 8/2/12				135 CU FT		
Date Well Work Commenced: 8/15/12						
Date Well Work Completed: 8/25/12						
Verbal Plugging:						
Date Permission granted on:						
Rotary Cable Rig						
Total Vertical Depth (ft): 2700'						
Total Measured Depth (ft):						
Fresh Water Depth (ft.): 90'						
Salt Water Depth (ft.): 1840'						
Is coal being mined in area (N/Y)? NO						
Coal Depths (ft.): N/A						
Void(s) encountered (N/Y) Depth(s)						
Gas: Initial open flow N/A MCF/d Oil: Initial open Final open flow N/A MCF/d Final open fl	ow SHOW B	Bbl/d bl/d	rara ousebaraie	CEIVET Short and 21 2013		
Time of open flow between initial and final tests_ Static rock Pressurepsig (surface pressure)	afterHou		Environment	om meet.		
Second producing formation Pay 2 Gas: Initial open flow MCF/d Oil: Initial open		 Bbl/d		· •-··		
Final open flow MCF/d Final open fl		bl/d				
Time of open flow between initial and final tests_						
Static rock Pressure psig (surface pressure)	after Hou	ırs				

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Were core samples tal	cen? Yes	N	<u>о</u> Х	V	ere cuttin	gs caught	during drill	ing? Yes <u>X</u>	No
Were Electrical, Mech	nanical or C	Geophysic	al logs recorde	ed on this we	ll? If yes,	please list	ELECTF	RICAL	
NOTE: IN THE FRACTURING OR DETAILED GEOL COAL ENCOUNTE	STIMULA OGICAL	ATING, I	PHYSICAL ( D OF THE	CHANGE, E TOPS AND	TC. 2). T	HE WELI	L LOG WI ALL FOR	HICH IS A S	YSTEMATIC
Perforated Intervals, F	racturing, o	or Stimula	iting:						
PERFORATED 25	572' - 258	82' (20 H	HOLES)						
FOAM FRAC 2100	00 LB OF	SAND,	500 GAL A						
				;					
Plug Back Details Incl	uding Plug	Type and	Depth(s):						
Formations Encounter Surface:	red;			Top Depth		1		Bottom !	<u>Depth</u>
SLATE & SHALE	0 -	1500'							
SALT SAND	1500' -								
SLATE & SHALE	1540' -	1640'							
SALT SAND	1640' -	1670'							
SLATE & SHALE	1670' -	1700'							
SALT SAND	1700' -	1730'							
SLATE & SHALE	1730' -	1910'							
LITTLE LIME	1910' -	2000'							
SLATE BREAK	2000' -	2008'							
BIG LIME	2008' -	2125'						-	
INJUN SAND	2125' -	2160'							
SLATE & SHALE	2160' -	2570'							
BEREA SAND	2570' -	2583'							
SLATE & SHALE	2583' -	2700'							
							ROAC	H #6	

WR-35 Rev (9-11)

# State of West Virginia Protection

DATE:	2/4/13	
API#:	087-4723	

Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

rm name: MARY B.	Operator Well No.: JOHN STANLEY #6				
OCATION: Elevation: 864'	Quadrangle:	LIVERPOOL			
District: REEDY	County: ROA				
Latitude: 1700' Feet South of 38 Deg. 1 Longitude 5100' F t West of 81 Deg. 2					
Donghude To West of Dog.	14111		<b>.</b>		
Company: KRAKROW, INC.					
Address: P. O. BOX 1007	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
SPENCER, WV 25276	9 5/8"	40'	40'	CTS	
Agent: JON R. HILDRETH	7"	845'	845'	CTS	
Inspector: ED GAINER	4 1/	2631'	2631'	TOP CEMENT 1760'	
Date Permit Issued: 8/10/12				135 CU FT	
Date Well Work Commenced: 8/					
Date Well Work Completed: 9/5/12					
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig					
Total Vertical Depth (ft): 2625'					
Total Measured Depth (ft):					
Fresh Water Depth (ft.): 90'					
Salt Water Depth (ft.): 1780'					
Is coal being mined in area (N/Y)? NO					
Coal Depths (ft.): N/A					
Void(s) encountered (N/Y) Depth(s)					
OPEN FLOW DATA (If more than two producing formation Producing formation BEREA Pay z  Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A MCF/d Final open flow Time of open flow between initial and final tests	one depth (ft)	2486' - 2494' bl/d bl/d	-	PECEIVEF Of Oil and I	
Static rock Pressurepsig (surface pressure) aft				IR 21 2013	
Second producing formation Pay zone depth (ft)  Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d  Final open flow MCF/d Final open flow Bbl/d  Time of open flow between initial and final tests Hours  Static rock Pressure psig (surface pressure) after Hours			Envariance	Carry	

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Date

Were core samples taken? Yes No X Were cuttings caught during drilling? Yes X No Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list\_ELECTRICAL CASED HOLE ONLY NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH. Perforated Intervals, Fracturing, or Stimulating: PERFORATED 2486' - 2494' (20 HOLES) FOAM FRAC 26000LBS OF SAND - 500 GAL ACID Plug Back Details Including Plug Type and Depth(s): Formations Encountered: Top Depth **Bottom Depth** Surface: SLATE & SHALE 0' - 1460' SALT SAND 1460' - 1500' SLATE & SHALE 1500' - 1555' **SALT SAND** 1555' - 1580' SLATE & SHALE 1580' - 1650' SALT SAND 1650' - 1700' SLATE & SHALE 1700' - 1780' SALT SAND 1780' - 1810' SLATE & SHALE 1810' - 1850' **BIG LIME** 1850' - 2040' INJUN SAND 2040' - 2080' SLATE & SHALE 2080' - 2480' BEREA SAND 2480' - 2498' SLATE & SHALE 2498' - 2625' **JOHN STANLEY #6** 

1100

#### State of West Virginia **Division of Environmental Protection** Section of Oil and Gas Well Operator's Report of Well Work

Farm name:

NIDAY, ORLAND B.

Operator Well No.: P.A. BAYS 101

LOCATION:

Elevation:

1,173'

Quadrangle:

LOONEYVILLE 7.5'

District:

**SMITHFIELD** 

County: ROANE

Latitude:

14,275 Feet south of

38 Deg 45 Min

0 Sec.

Longitude:

9.060 Feet west of

81 Deg 15 Min Sec.

Company Address:	HG Energy 5260 DuPont Road Parkersburg, WV 26101		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Inspector:	Ed C	Gainer				
Date Permit Is	ssued: (	09/06/2012				
Date Well Wo	rk Commenced:	12/03/2012	]			
Date Well Wo	rk Completed:	12/09/2012	]			
Verbal Pluggi	ng:					
Date Permissi	on Granted On:					
Rotary X	Cable	Rig	8 <i>5</i> /8"	587'	587'	245 sks
Total vertical	Depth (ft):	2360'				
Total Measure	ed Depth (ft):	2360'				
Fresh Water D	epth (ft):	none	4 1/2"	2329.4'	2329.4'	280 sks
Salt Water De	pth (ft):	1790'			6	
Is Coal being	mined in ares (Y/N)	? No		ומ	CEIVED of Oil and	GQ2
Coal Depths (		None		-468	Ptollan	
Void(s) encou	ntered (Y/N) depth(	(s):		Olling	. 20	3
	NONE			•	MAR 12 20	
					nartr	hent of hone
					v menial	Pio
FLOW DATA				EUVIL	Ollina	

#### **OPEN FLOW DATA**

Producing formation Pay zone depth (ft) Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow MCF/d Final open flow Bbl/d Time of open flow between initial and final tests Hours psig (surface pressure) after Static rock pressure Hours Second producing formation Pay zone depth (ft) Initial open flow MCF/d Oil: Initial open flow Bbl/d Gas: Final open flow MCF/d Final open flow Bbl/d Time of open flow between initial and final tests Hours psig (surface pressure) Static rock pressure after Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Were core samples taken?

Were cuttings caught during drilling? No

Were

No

Mechanical,  $\frac{N}{Y/N}$  or Geophysical logs recorded on this well?

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

**Treatment:** 

Not Completed

Well Log:

All depths are measured relative to KB (8' AGL).

Shale w/ sand streaks	0	-	1012
Sand	1012	-	1118
shale	1118	-	1208
sand	1208	-	1234
shale	1234	-	1268
sand	1268	-	1309
shale	1309	-	1367
sand	1367	-	1420
shale	1420	-	1466
sand	1466	-	1545
shale	1545	-	1572
sand	1572	-	1615
shale	1615	-	1698
sand	1698	-	2000
Little Lime	2000	-	2028
Pencil Cave	2028	-	2042
Big Lime	2042	-	2167
Big Injun	2167	-	2210
Shale	2210	-	2360
TD	2360		
T.DLogger	2359	KB	
T.DDriller	2360	KB	

WR-35 Rev (5-01) DATE: May 24, 2010 API #: 47-091-01156

## State of West Virginia Department of Environm ntal Protection Office of Oil and Gas

#### Well Operator's Report of Well Work

Farm name: Bolyard	Open	tor well No.:_	5802		
LOCATION: Elevation: 1540'	Quad	rangle: <u>Thor</u>	nton		
District: Knottsville	Count	ty Taylor		· · · · · · · · · · · · · · · · · · ·	
Latitude: Feet South of	Deg.	Min.	Sec.		
Longitude Feet West of	Deg.	Min.	Sec.		
Company: Berry Energy, Inc	Casing & Tubing	drilling	Left in well	Cement fill up Cu. Ft.	
Address: P.O Box 5	7"	761'	761'	To surface	
Clarksburg, WV 26301	4 1/2"		2392'	56 sx	
Agent: David Berry					
Inspector: Bryan Harris					
Date Permit Issued: 9/11/2009					
Date Well Work Commenced: 4/16/2010		REC	IVED		
Date Well Work Completed: 4/27/2010		Office	LIVED		
Verbal Plugging:		Onice or	Oil & Gas		
Verbal Plugging: Date Permission granted on: Rotary X Cable Rig					
Rotary X Cable Rig		MAR 2	<b>2</b> 2013		
Total Depth (feet): 2545' (10' KB)					
Fresh Water Depth (ft.): 50'		MAY Done			
		AAA DODE	rtment of		
Salt Water Depth (ft.): none	En	vironment	al Protecti	bn	
			·		
Is coal being mined in area (N/Y)? No					
Coal Depth: 104', 223'					
OPEN FLOW DATA		•		•	
Producing formation 5th 30 Foot Sands	Pay 20	ne denth (ft)	2310' 1850'		
Producing formation 5 <sup>th</sup> , 30 Foot Sands  Gas: Initial open flow tstm MCF/d  Final open flow 119 MCF/d	i Gili	Initial open flo	w 0 R	bl/d	
Final open flow 110 MCF/d	Fir	nal open flow	Rhi/	'A .	
Time of open flow between initial and f	inal tecto			u	
Static rock Pressure 500 psig (sur		1100	uro Lloura		
psig (su	riace pressure	) aller	Hours		
Second producing formation Vector	Darrama	donth (A) 1	2002		
Second producing formation Keener  Gas: Initial open flow 421 natural	ray zone	depin (11)1.	200	NL1/3	
Final open flow 286 nat. MCF				361/d	
		Final open flo		8bl/d	
Time of open flow between initial and f			ours		
Static rock Pressure 210 psig (su	rrace pressure	e) after	Hours		
NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.					
Signed: Aurol	erry				
By: David Berry	9-7	<del></del>			
Date: May 24, 2010					

91-1156

Perforations: Stage One / 5th Sand : 2302' - 2306' 16 holes (.39") (GL)

Stage Two / 30 Foot: 1838' - 1842' 16 holes (.39") (GL)

Stimulation: Stage One: 500 gal. 15% HCl, 147 Bbls, 389 Mscf Nitrogen, 35,429# 20/40 sand, BD 3497#, ATP 3556#, 65Q foam

Stage Two: 500 gal 15% HCl, 157 Bbls, 314 Mscf Nitrogen, 36,161# 20/40 sand, BD 3097# ATP 2714#, 71Q foam

Geologic Record		
Sand and Shale	0	104
Coal	104	107
Sand and Shale	107	223
Coal	223	226
Sand and Shale	226	500
Sandstone	500	624
Sand and Shale	624	662
Shale	662	690
Sand and Shale	690	740
Shale	740	755
Sand and Shale	755	945
Red Rock	945	955
Shale	955	1060
Little Lime	1060	1071
Pencil Cave	1071	1097
Big Lime	1097	1178
Keener Sand	1178	1206
Big Lime	1206	1318
Sand and Shale	1318	1842
30 Foot Sand	1842	1853
Shale and Sand	1853	2304
5 <sup>th</sup> Sand	2304	2314
Shale and Siltstone	2314	2545 TD (10° KB)

DATE: August 10, 2010 API#: 47-097-03723

## State of West Virginia Department of Environmental Protection Office of Oil and Gas

#### Well Operator's Report of Well Work

Farm name: <u>Tall Trees &amp; Land LLC</u>	$\mathbf{O}_{\mathbf{j}}$	perator Well	_Dale Woody#	<u>2 WV3014</u>	
LOCATION: Elevation: 2287'	Quadrangle: Rock Caye 7.5				
District: <u>Banks</u>	County: _L	<u>Jpshur</u>			
Latitude: 6,550' Feet South of 38 Deg. Longitude 11,600' Feet West of 80 Company: Seneca Upshur Petroleum Corp.			Sec. Sec.		
,	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Address: P.O. Box 2048					
Buckhannon WV 26201	13 3/8"	32'	32'	Sand In	
Agent: James Turner					
Inspector: Bill Hatfield	9 5/8"	1115'	1115'	474 Cu. Ft.	
Date Permit Issued: February 03, 2010			*		
Date Well Work Commenced: March 10, 2010	4 1/2"	7380'	7380'	126 Cu. Ft.	
Date Well Work Completed: July 13, 2010					
Verbal Plugging:					
Date Permission granted on:		ļ	-	<b></b>	
Rotary X Cable Rig	<u> </u>			<u> </u>	
Total Depth (feet): 7030'	1	<u> </u>		ļ	
Fresh Water Depth (ft.): 65'- 320'- 840'	<u> </u>				
Calastiana Daniel (St.). 19491		-	-		
Salt Water Depth (ft.): 1242'	ļ		-		
To cool being united in some (NIANO N	<u>i</u>			· · · · · · · · · · · · · · · · · · ·	
Is coal being mined in area (N/Y)? N  Coal Depths (ft.): 378'-380', 395'-398', 502'-507', 595'	-	-	-		
OPEN FLOW DATA	ı	I	I	1	
Producing formation Marcellus Pay zone depth (ft) 7271'- Gas: Initial open flow 1500 MCF/d Oil: Initial open flow 0 Final open flow 2000 MCF/d Final open flow 0 Time of open flow between initial and final tests 12 Hours Static rock Pressure 2400 psig (surface pressure) after 24 Hours	_Bbl/d lbl/d				
NOTE: ON BACK OF THIS FORM PUT THE FOLL INTERVALS, FRACTURING OR STIMULATING, PLOG WHICH IS A SYSTEMATIC DETAILED GEOINCLUDING COAL ENCOUNTERED BY THE WELL Signed:	HYSICAL LOGICAL LBORE.	CHANGE, I RECORD O	ETC. 2). THE W F ALL FORMA	ELL TIONS,	
By: Deved Down  Date: 12/20/12		<b>○</b>	DECENER OF OH OT	1013 1013	
		7	Ellanan July	ar rounginon	

1<sup>st</sup> Stage –Slick Water Frac, Perforations Marcellus 7320'-7350' (180 holes) 1000 gal. 15 % HCL, Breakdown 2260 psig, 4000 bbl pad 100,540 lbs 80/100 mesh sand, 492,000 lbs 40/70 mesh sand 14,730 bbls treated fluid, Avg. Rate 73 bpm, Avg. Treating Press. 4485 psi, ISDP 2400 psi

#### **Production Tops**

1550'-1600'
1600'-1696'
1702'-1770'
1798'-1826'
1834'-2192'
2206'-2244'
2246'-2314'
2366'-2400'
2494'-2528'
3382'-3408'
3684'-3720'
3892'-3906'
4036'-4098'
4594'-4602'
4670'-4712'
4842'-4880'
5440'-5465'
6410'-6436'
7128'-7164'
7164'-7186'
7272'-7362'
7382'

#### State of West Virginia **Division of Environmental Protection** Section of Oil and Gas Well Operator's Report of Well Work

Farm name:

WAYNE, ROBERTA B.

Operator Well No.: MCCOY HEIRS 17

LOCATION:

Elevation:

810'

Quadrangle:

PINE GROVE 7.5'

District:

**GREEN** 

County:

WETZEL

11,005 Feet south of

39 Deg 32 Min

30 Sec.

Latitude: Longitude:

5,160 Feet west of

80 Deg 40 Min Sec.

Company Address:	HG Energ 5260 DuP Parkersbu	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.		
Inspector:	Derek	: Haught					
Date Permit Is	ssued:	08/31/2012					
Date Well Wo	ork Commenced:	10/24/2012					
Date Well Wo	ork Completed:	11/07/2012	9 5/8"	32'	32'		
Verbal Pluggi	ng:		7 3/6	<i>JL</i>	32	·	
Date Permissi	on Granted On:						
Rotary X	Cable	Rig	7"	805'	805'	175 sks	
Total vertical	Depth (ft):	2883'					
Total Measure	ed Depth (ft):	3132'					
Fresh Water I	Depth (ft):	50', 120'	4 1/2"	3052.8'	3052.8'	250 sks	
Salt Water De	pth (ft):	None					
Is Coal being	mined in ares (Y/N	)? No			CEIVED	Peo <sub>2</sub>	
Coal Depths (	ft): x	546'-554'		<i>y</i>	Of Oil on.		
	ntered (Y/N) depth NONE	(s):		Office	ECEIVED of Oil and MAR 122	ment of ment of	

n	PE	N'	FI	$\cap$	W	D	Δ٦	ГΔ	

Static rock pressure

This well drilled directionally 294° NW a distance 87 802'. 287

Gordon 2870'-2883' **Producing formation** 2898'-2905' MCF/d Oil: Initial open flow Gas: Initial open flow Bbl/d Final open flow MCF/d Final open flow Bbl/d Time of open flow between initial and final tests Hours Static rock pressure psig (surface pressure) after Hours Second producing formation Pay zone depth (ft) Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow MCF/d Final open flow Bbl/d Time of open flow between initial and final tests Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

psig (surface pressure)

after

Hours

Were core samples taken?			No		Were cuttings caught during drilling? No 103-028				
Were	Y Y/N	Electrical,	<u>N</u>	Mechanical,	N 	or Geophysical logs recorded on this well?			

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

<u>Treatment:</u> Treated perfs 2870'-2883', and 2898'-2905' w/ 1250 gals 15% HCL, 379 bbls cross linked gel, and 20,000# 20/40 sand.

#### Well Log: All depths are measured relative to KB (8' AGL).

Shale w/ sand streaks	0	-	546
Coal	546	-	554
Shale w/ sand streaks	554	-	1084
Sand	1084	-	1120
shale	1120	-	1194
sand	1194	-	1280
shale	1280	-	1304
sand	1304	-	1323
shale	1323	-	1350
sand	1350	-	1375
shale	1375	-	1506
sand	1506	-	1552
shale	1552	-	1603
sand	1603	-	1624
shale	1624	-	1758
sand	1758	-	1770
shale	1770	-	1787
sand	1787	-	1803
shale	1803	-	1812
Big Lime	1812	-	1892
Big Injun	1892	-	2144
shale	2144	-	2834
Gordon stray	2834	-	2854
shale	2854	-	2864
Gordon	2864	-	2886
shale	2886	-	2896
sand	2896	-	2908
shale	2908	-	3132
TD	3132		
T.DLogger	3097	KB	
T.DDriller	3132	KB	

Date API# June 4, 2013 47 - 109 - 00417D

# State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work

Farm Name:	US Army Corp o	f Engineers	- Real Estate	Operat	or Well	No.: _	Stokes	(#2) 02	22290	
LOCATION:	Elevation: District: Latitude: Longitude:	11,280'	Fork feet South of feet West of	81°	DEG. DEG.	42' 45'	Mallo Wyom MIN. MIN.		SEC. SEC.	Coment Fill
					sing & ng Size	Used ir	Drilling	Left I	n Well	Cement Fill Up Cu. Ft.
Company:	Equitable Produc 1710 Pennsylvan	•	ıy							
	Charleston, WV 2					See E	xisting	Well f	Record	
Agent: Inspector:		Rex C Barry S		- 4	1/2°	60	)10'	60	10'	165 sx
Permit Issued Well Work Co	mmenced:	12/18/ Decembe	/2003 r 5, 2004	2	3/8"			56	11'	
Well Work Co Verbal Pluggir	· ·	December	14, 2004	-						
Permission gra Rotary X							RECE	INEC	)	
Total Depth (for Fresh Water I	eet)	613	34'	-		Offi	ce of (	<del>)    &amp;</del>	<del>Gas</del>	
Sait Water De	pths (ft)	N) 0		-			JUN U	3 2013	<b>S</b>	
Coal Depths (	mined in area (Y / ft)	-		<u> </u>			<del>'Dep</del> e	ıtme	nt of	
OPEN FLOW	DATA				<sub>Bav</sub> E	nyiro	nmeni	al Pr	otecti	on
Producing Fo	ormation	Bere	a	<del></del>	Depth	(ft) _				
	pen Flow pen Flow pen flow between in	nitial and fine	MCF/d		Oil: Ir F	itial Ope inal Ope	en Flow en Flow Hours			Bbl/d Bbl/d
	essure			ssure af	ter		— Hours			
Second Prod	ucing Formation	Lowe	er Huron/Gordo	on	Pay Z Depth	one (ft)	4	284'-56	77'	
Gas: Initial Op Final Op Time of op	pen Flow pen Flow pen flow between in			i	F	nitial Ope inal Ope	n Flow Hours			Bbl/d Bbl/d
Static rock pre			sig surface pre				Hours			
STIMULATING	CK OF THIS FORM , PHYSICAL CHANG ATIONS, INCLUDIN	3E, ETC. 2.)	THE WELL LO	G WHIC	H IS SYS	STEMAT				
· ·== · · ·			For:			ION COM	IPANY			
			By: Date:	Hu	June	Stall	up			

perfed Lower Huron / Gordon 40 H / 4284' - 5677'. BJ fraced Lower Huron / Gordon w/  $N^2$ . BD 2661 psi, ISIP 1643 psl, 2 min ISIP 1481 psi, 5 min ISIP 1417 psi, 10 min ISIP. Avg rate 58,275 SCF/M  $N^2$ , BJ pumped total 1,200,000 SCF  $N^2$  & 7 gal 7-1/2% HCL. Allegheny perfed Berea 20 H / 3973' - 4004'. BJ fraced Berea w/ 85,80,75Q foam. BD 382 psi, ISIP 1100 psi, 2 min ISIP 931 psi, 5 min ISIP 899 psi, 10 min ISIP 863 psi. ATP 1731 psi, MTP 1484 psi. Ave rate 26.3 B/M foam. BJ pumped 52,500 # 20/40 sand, 216 bbl water, 726,200 SCF  $N^2$  & 500 gal 15% HCL.

FORMATION	TOP	BOTTOM	REMARKS	

RECEIVED
Office of Oil & Gas

JUN 03'2013

WV Department of Environmental Protection